JNCSBJ MASTER INDEX VOLS. 81–90
April 1987

JOURNAL OF NON-CRYSTALLINE SOLIDS

A Journal devoted to oxide, halide, chalcogenide and metallic glasses, amorphous semiconductors, non-crystalline films, glass-ceramics and glassy composites

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Announcement of a Special Issue

OPTICAL LINEWIDTHS IN GLASSES

Laser Spectroscopy and Theoretical Studies of Dephasing Processes

Volume 36, nos. 4 & 5

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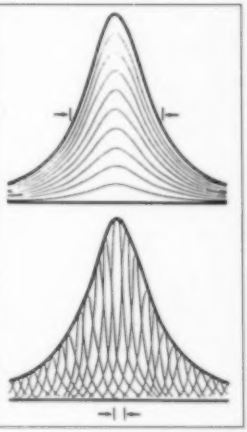

This special issue reviews current research on optical linewidths in glasses and surveys our current understanding of this stimulating subject. To provide a comprehensive review of the growing body of results on optical linewidths in glasses and a survey of the latest developments, a call was issued for papers on the homogeneous linewidths of optical transitions of impurities in organic glasses, inorganic glasses and glassy (i.e. disordered) crystals. Experimental work involving laser-induced fluorescence line narrowing, hole burning, and coherent transient techniques and theoretical papers were particularly welcome. This issue, which includes both invited and contributed papers, covers all of these areas.

Contents: Preface. **Part I - Overview.** Homogeneous line broadening of optical transitions of ions and molecules in glasses *(R.M. Macfarlane and R.M. Shelby)*. **Part II - Experiment. Fluorescence Line Narrowing.** Fluorescence line narrowing in inorganic glasses: linewidth measurements *(W.M. Yen and R.T. Brundage)*. Comparison of the spectral and temperature dependences of the homogeneous linewidths in Eu^{3+}-doped fluoride and oxide glasses *(F. Durville, G.S. Dixon and R.C. Powell)*. Optical linewidths in chromium-doped glass and ceramic *(F.J. Bergin, J.F. Donegan, T.J. Glynn and G.F. Imbusch)*. **Hole Burning.** Hole-burning study of zero-phonon linewidths in organic glasses *(K.K. Rebane and A.A. Gorokhovskii)*. Optical linewidths and dephasing of organic amorphous and semi-crystalline solids studied by hole burning *(S. Völker)*. Hole-burning experiments in doped polymers under uniaxial and hydrostatic pressure *(Th. Sesselmann, W. Richter and D. Haarer)*. **Coherent Transients.** Optical dephasing in doped glasses *(J. Hegarty)*. **Part III. Theory.** Theoretical studies of homogeneous linewidths of optical transitions in glasses *(R. Silbey and K. Kassner)*. Dispersive kinetic processes, optical linewidths and dephasing in amorphous solids *(R. Jankowiak, L. Shu, M.J. Kenney and G.J. Small)*. Analysis of a stochastic model for the optical linewidths and photon-echo decays of impurities in glasses *(D.L. Huber)*. The tunnelon theory of optical dephasing and impurity homogeneous optical band in amorphous solids: finding the two-level system parameters *(I.S. Osad'ko and A.A. Shtygashev)*. Raman contribution to the homogeneous optical linewidth of impurity ions in vitreous silica *(D.L. Huber)*.

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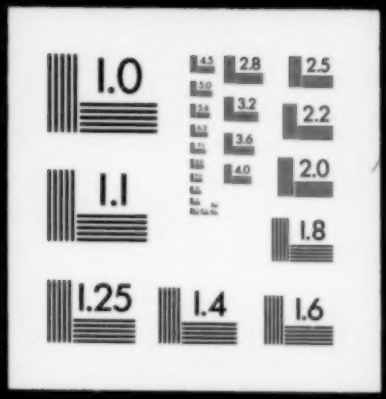
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